

Title	Demonstrate knowledge of organic compounds		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: classify and name given organic compounds and isomers; describe the physical properties of organic compounds; and classify reactions of organic compounds and describe their functional group conversion.
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Classification	Science > Chemistry
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Available grade	Achieved
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Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Classify and name given organic compounds and isomers.

Performance criteria

- 1.1 Compounds are classified and named in accordance with systematic nomenclature and common names.
- 1.2 Isomers are classified and named in accordance with systematic nomenclature.
- Range constitutional, configurational, conformational; geometric (cis-trans, optical).

Outcome 2

Describe the physical properties of organic compounds.

Range melting point, boiling point, solubility.

Performance criteria

- 2.1 Physical properties of a homologous series are identified in relation to trends.
- 2.2 Physical properties of compounds of same carbon chain length with a different functional group are described in terms of their differences.

Outcome 3

Classify reactions of organic compounds and describe their functional group conversion.

Performance criteria

3.1 Organic compounds are classified in accordance with their reaction.

Range four of – addition, substitution, elimination, condensation, rearrangement, oxidation-reduction, acid-base.

3.2 Conversion of functional groups is described in accordance with their reaction.

Range four of – alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, esters, amides, amines, acid halides.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 November 1999	31 December 2014
Review	2	18 June 2010	31 December 2022
Rollover	3	27 January 2015	31 December 2022
Rollover and Revision	4	15 June 2017	31 December 2022
Revision	5	26 October 2017	31 December 2022
Review	6	22 October 2020	31 December 2022

Consent and Moderation Requirements (CMR) reference	0113
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.